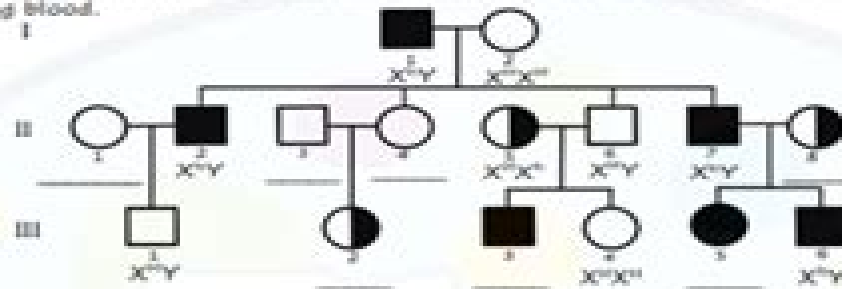


Pedigree #4: Hemophilia is a sex-linked recessive disorder that results in non-clotting blood.



1. Fill in all missing genotypes and add shading if necessary.
2. How many males have hemophilia? ____ Can males be carriers? ____
3. How many females have hemophilia? ____ How many are carriers? ____
4. Why do males show a sex-linked trait more often than females?

5. How could the genotype of II-1 be determined? _____

Pedigree #5: Cystic fibrosis is a disorder that damages the lungs and other organs, making it difficult to breathe. Draw a pedigree for the following family. A married couple, both carriers of cystic fibrosis, has three children. The oldest is a boy with cystic fibrosis. The two youngest are girls that show no sign of the disorder. The youngest girl marries a carrier and has two boys, the youngest with cystic fibrosis. The elder son marries a woman whose dad had cystic fibrosis and has two girls. Neither shows the disorder. Number your pedigree and add genotypes. Shade in symbols where needed.

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Heidi Ann Schoenhard

A red circular graphic with a gradient, appearing as a partial circle or a stylized 'C' shape, located to the right of the author's name.

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